



## **CLAIMS**

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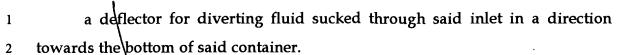
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- 1. A therapeutic apparatus for stimulating healing of a wound in mammals, comprising:
  - a porous pad which is permeable to fluids for introduction into the wound and secured in the wound by a dressing covering the wound and providing an air-tight seal around the wound and said pad;
  - a canister for collecting fluids sucked from the wound connected to said pad through a drainage tube; and
  - a suction pump for applying negative pressure to the wound connected to said canister through a hose, at least one filter being interposed between said canister and said pump.
- 2. An apparatus as claimed in claim 1 wherein the filter is located in said canister.
- 3. An apparatus as claimed in claim 2 wherein said canister is removably attached to a housing for said pump.
- 4. An apparatus as claimed in claim 3 wherein said canister is removably received in a recess in the housing.
- 5. An apparatus as claimed in claim 1 wherein the drainage tube is fitted into the interior of said porous pad as an interference fit.
- 6. An apparatus as claimed in claim 5 wherein said pad comprises a polymer foam having interconnecting cells.
- 7. An apparatus as claimed in claim 6 wherein said foam is a polyether reticulated foam having at least 95% of interconnecting cells.
- 8. An apparatus as claimed in claim 1 wherein the dressing is an elastomeric film which is coated at least in the peripheral areas with a pressure-sensitive adhesive and said foam is a reticulated foam having at least 90% of interconnecting cells.

1	، \ رقع	A therapeutic apparatus for stimulating healing of a wound in
2	mammals, cor	nprising:
3	a pord	us pad which is permeable to fluids for introduction into the
4	•	wound and secured in the wound by a dressing covering the
5	•	wound and providing an air-tight seal around the wound and said
6	1	pad;
7	a canis	ter for collecting fluids sucked from the wound connected to said
8	1	pad through a drainage tube; and
9	a suctio	on pump for applying negative pressure to the wound connected to
10	S	said canister through a hose, at least one filter being interposed
11	1	between said canister and said pump;
12	a senso	or for detecting when said canister is substantially full with fluid,
13	S	said sensor being associated with said pump to discontinue
14	â	application of the negative pressure when a substantially full
15	C	condition of said canister is detected.
16	<b>10</b> .	An apparatus as claimed in claim 9 wherein said sensor comprises
17	a capacitance	sensor, said sensor arranged to sense a change of capacitance as
18	said canister f	ills with fluid.
19	<b>11</b> . <i>A</i>	An apparatus as claimed in claim 10 wherein the apparatus is
20	adapted to ap	ply continuous or intermittent suction to the wound.
21	<b>12</b> .	An apparatus as claimed in claim 11 further comprising a bleed
22	device provid	ed between the danister and the pump to permit release of negative
23	pressure durir	ng intermittent operation.
24	<b>13</b> .	A therapeutic apparatus for stimulating healing of a wound in
25	mammals, con	nprising:
26	a polye	ether reticulated foam pad which is permeable to fluids, said pad
27	l	having at least 95% of interconnecting cells being adaptable for
28	i	introduction into the wound;
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1	a dressing for securing said pad in place by covering the wound and
2	providing an air-tight seal around the wound and said pad, said
3	dressing being an elastomeric polyurethane film which is coated at
4	least in the peripheral areas with a pressure-sensitive adhesive;
5	a drainage tube fitted into the interior of said porous pad as an
6	\ interference fit;
7	a canister for collecting fluids sucked from the wound; said canister being
8	connected to said pad through said drainage tube;
9	a suction pump for applying continuous or intermittent negative pressure
10	to the wound, said pump being connected to said canister through
11	a hose;
12	a bleed device provided between the canister and the pump to permit
13	release of negative pressure during intermittent operation;
14	said canister further being removably received in a recess of a housing for
15	said pump;
16	a filter contained in a portion of said canister in fluid communication
17	between said canister and said pump;
18	a capacitance sensor arranged to sense a change of capacitance as said
19	canister fills with fluid, said sensor being associated with said
20	pump to discontinue application of the negative pressure when a
21	substantially ful condition of said canister is detected.
22	14. A canister for use in an apparatus for stimulating wound healing
23	by drainage, comprising:
24	a molded plastic container provided with an anti-foaming substance
25	within a chamber thereof;
26	said container having an inlet for connection to a wound dressing pad;
27	said container having an outlet for connection to a suction pump;
28	said outlet incorporating a bacterial filter; and



15. A canister as claimed in claim 14 wherein said container is provided with a gel-forming substance, which substance is capable of immobilizing drainage fluids within said container.

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